

In the Claims:

Please amend the claims as follows:

1. (currently amended) An insert in the a data signal transmission media plug receiving space of a modular housing, comprising:

a dielectric support member havingsupporting a plurality of pairs of electrically conductive elongated members, each elongated member having a front end portion and a rear end portion, the front end portion including a contact portion exposed in the receiving space for making electrical contact with a media plug contact and a, the contact portion being disposed between the rear end portion and a front of the front end portion, the front end portion further including a second portion disposed immediately forward of the contact portion, the rear end portion including an electrically conductive connector device, wherein the plurality of pairs of elongated members are disposed ~~on the support member~~ in positional relationships with respect to each other such that a capacitance is formed between the second portion of one of the elongated members and the second portion of another of the elongated members not positioned adjacent to said second portion of said one elongated member for compensating electrical noise during transmission of a signal.
2. (original) An insert as recited in claim 1, wherein the plurality of pairs of elongated members have substantially multilaterally symmetrical portions and substantially multilaterally asymmetrical portions.
3. (original) An insert as recited in claim 2, wherein the front end portions are substantially multilaterally symmetrical and the rear end portions are substantially multilaterally asymmetrical.
4. (original) An insert as recited in claim 1, wherein the front end portions are substantially parallel.

5. (original) An insert as recited in claim 1, wherein each pair of the plurality of pairs of elongated members include a ring member and a tip member, wherein the rear end portions of the ring members are lower relative to the receiving space than the front end portions of the ring members.

6. (original) An insert as recited in claim 5, wherein there are four pairs of electrically conductive elongated members.

7. (original) An insert as recited in claim 1, wherein the front end portions of the elongated members further comprise arcuate sections for extending the elongated members into the receiving space.

8. (currently amended) An insert as recited in claim 1 wherein the connecting devices comprise connector device comprises electrically conductive pins.

9. (currently amended) An insert in a modular jack for receiving and compensating a signal transmitted through the eight leads from a standard RJ45 wire plug, comprising:

a dielectric support member; and

eight elongated conductive elements disposed on the support member, each element having a front portion and a rear portion, each front portion having a contact portion for establishing electrical contact with one of the eight leads, the contact portion being disposed between the rear portion and a front of the front portion, the front portion further including a second portion disposed immediately forward of the contact portion, each rear portion having a connecting device for further transmission of the signal, wherein the elements are in a positional relationship with respect to each other for forming a capacitance between the second portion of one of the elongated conductive elements and the second portion of another of the elongated conductive elements not positioned adjacent to said second portion of said one elongated conductive element to compensate electrical noise during transmission of the signal.

10. (original) An insert as recited in claim 9, wherein the front portions of the eight conductive elements are in a substantially parallel positional relationship along a longitudinal axis.

11. (original) An insert as recited in claim 10, wherein the rear portions include parallel portions and transverse portions with respect to the longitudinal axis.

12. (original) An insert as recited in claim 9, wherein the front portion is substantially arcuate.

13. (original) An insert as recited in claim 9, wherein four of the eight conductive elements are ring voltage and the other four of the eight conductive elements are tip voltage.

14. (currently amended) An insert as recited in claim 13, wherein the four ring voltage conductive elements are disposed in a first row and below the four tip voltage conductive elements, which are disposed in a second row ~~on the support member, wherein the first row connecting devices are below the second row connecting devices.~~

15. (withdrawn) An arrangement for compensating cross-talk noise in an electrical signal, comprising:

a printed circuit board with at least one front terminal and at least one rear terminal for connecting with electrically conductive media;

a dielectric modular jack housing having a signal transmission media receiving space for signal transmission media having a plurality of conductive leads;

a plurality of pairs of elongated conductors disposed in the signal transmission media receiving space, each elongated conductor of the plurality of elongated conductors having a front end portion and a back end portion, the back end portion including a connecting device for

connecting with the front terminal on the printed circuit board and the front end portion including a contact portion for engaging the plurality of conductive leads,

wherein the plurality of pairs of elongated conductors are in a positional relationship with respect to each other to form a capacitance for compensating electrical noise in a signal transmission

16. (withdrawn) An arrangement as recited in claim 15, wherein the front end portions are substantially parallel with respect to each other along a longitudinal axis.

17. (withdrawn) An arrangement as in claim 16, wherein the rear end portions are partially parallel and partially transverse with respect to the axis.

18. (withdrawn) An arrangement as in claim 15, wherein there are four pairs of elongated conductors.

19. (withdrawn) An arrangement as in claim 15, wherein front end portions are substantially arcuate.

20. (withdrawn) An arrangement as in claim 15, wherein the electrically conductive media comprises an untwisted pair cable.

21. (new) An insert as recited in claim 1 wherein said second portion of said one elongated member and said second portion of said another elongated member each define a shape that is concave with respect to an upper surface of the support member.

22. (new) An insert as recited in claim 21 wherein the second portion of another one of the elongated members positioned adjacent to said second portion of said one elongated member defines a shape that is convex with respect to said upper surface of the support member.

23. (new) An insert as recited in claim 1 wherein said second portion of said one elongated member has a portion separated from the second portion of another one of the elongated

members positioned adjacent to said second portion of said one elongated member by a distance that is greater than twice the thickness of one of the elongated members.

24. (new) An insert as recited in claim 1 wherein said second portion of said one elongated member has a portion separated from the second portion of another one of the elongated members positioned adjacent to said second portion of said one elongated member by a distance that is greater than three times the thickness of one of the elongated members.

25. (new) An insert as recited in claim 1 wherein a reactance is formed between the rear portion of said one elongated member and the rear portion of said another elongated member.

26. (new) An insert for a modular housing having a data signal transmission media plug receiving space, the insert comprising:

a dielectric support member; and

a plurality of pairs of electrically conductive elongated members supported by the dielectric support member, each elongated member having a front end portion and a rear end portion, the front end portion including a contact portion to be exposed in the receiving space for making electrical contact with a media plug contact, the contact portion being disposed between the rear end portion and a front of the front end portion, the front end portion further including a second portion that is disposed immediately forward of the contact portion, the rear end portion including a portion for connecting to the elongated member,

wherein the plurality of pairs of elongated members are disposed in positional relationships with respect to each other such that a capacitance is formed between the second portion of one of the elongated members and the second portion of another of the elongated members not positioned adjacent to said second portion of said one elongated member for reducing electrical noise during transmission of a signal.

27. (new) An insert as recited in claim 26 wherein said second portion of said one elongated member and said second portion of said another elongated member each define a shape that is concave with respect to an upper surface of the support member.
28. (new) An insert as recited in claim 27 wherein the second portion of another one of the elongated members positioned adjacent to said second portion of said one elongated member defines a shape that is convex with respect to said upper surface of the support member.
29. (new) An insert as recited in claim 26 wherein said second portion of said one elongated member has a portion separated from the second portion of another one of the elongated members positioned adjacent to said second portion of said one elongated member by a distance that is greater than twice the thickness of one of the elongated members.
30. (new) An insert as recited in claim 26 wherein said second portion of said one elongated member has a portion separated from the second portion of another one of the elongated members positioned adjacent to said second portion of said one elongated member by a distance that is greater than three times the thickness of one of the elongated members.
31. (new) An insert as recited in claim 26 wherein a reactance is formed between the rear portion of said one elongated member and the rear portion of said another elongated member.
32. (new) A connector comprising:  
a modular housing having a data signal transmission media plug receiving space; and  
an insert as recited in claim 26 seated in the modular housing.
33. (new) A connector as recited in claim 32 wherein the data signal transmission media plug receiving space defines a RJ45 plug receiving space.
34. (new) An insert for a modular housing having a data signal transmission media plug receiving space, the insert comprising:

a dielectric support member; and

a plurality of pairs of electrically conductive elongated members supported by the dielectric support member, each elongated member having a front end portion and a rear end portion, the front end portion including a contact portion to be exposed in the receiving space for making electrical contact with a media plug contact, the contact portion being disposed between the rear end portion and a front of the front end portion, the front end portion further including a curved portion that is disposed forward of the contact portion and defines a shape, the rear end portion including a portion for connecting to the elongated member,

wherein the shape defined by the curved portion of one of the elongated members is substantially asymmetrical to the shape defined by the curved portion of another of the elongated members positioned adjacent to said curved portion of said one elongated member and wherein said shape defined by said curved portion of said one elongated member is substantially symmetrical to the shape defined by the curved portion of another of the elongated members not positioned adjacent to said curved portion of said one elongated member.

35. (new) An insert as recited in claim 34 wherein said curved portion of said one elongated member and said curved portion of said another elongated member not positioned adjacent to said curved portion of said one elongated member each define a shape that is concave with respect to an upper surface of the support member.

36. (new) An insert as recited in claim 35 wherein the curved portion of said another one of the elongated members positioned adjacent to said curved portion of said one elongated member defines a shape that is convex with respect to said upper surface of the support member.

37. (new) An insert as recited in claim 34 wherein said curved portion of said one elongated member has a portion separated from the curved portion of another one of the elongated members positioned adjacent to said curved portion of said one elongated member by a distance that is greater than twice the thickness of one of the elongated members.

38. (new) An insert as recited in claim 34 wherein said curved portion of said one elongated member has a portion separated from the curved portion of another one of the elongated members positioned adjacent to said curved portion of said one elongated member by a distance that is greater than three times the thickness of one of the elongated members.

39. (new) An insert as recited in claim 34 wherein a reactance is formed between the rear portion of said one elongated member and the rear portion of said another elongated member not positioned adjacent to said curved portion of said one elongated member.

40. (new) A connector comprising:  
a modular housing having a data signal transmission media plug receiving space; and  
an insert as recited in claim 34 seated in the modular housing.

41. (new) A connector as recited in claim 40 wherein the data signal transmission media plug receiving space defines a RJ45 plug receiving space.

42. (new) An insert for a modular housing having a data signal transmission media plug receiving space, the insert comprising:

a dielectric support member; and

a plurality of pairs of electrically conductive elongated members supported by the dielectric support member, each elongated member having a front end portion and a rear end portion, the front end portion including a contact portion to be exposed in the receiving space for making electrical contact with a media plug contact, the contact portion being disposed between the rear end portion and a front of the front end portion, the front end portion further including a bent portion disposed forward of the contact portion, the rear end portion including a portion for connecting to the elongated member,

wherein the bent portion of one of the elongated members defines a shape that is concave with respect to an upper surface of the support member and the bent portion of another one of the

elongated members positioned adjacent to said one of the elongated members defines a shape that is convex with respect to said upper surface of the support member.

43. (new) An insert as recited in claim 42 wherein said bent portion of said one elongated member and the bent portion of another elongated member not positioned adjacent to said curved portion of said one elongated member each define a shape that is concave with respect to said upper surface of the support member.

44. (new) An insert as recited in claim 42 wherein said bent portion of said one elongated member has a portion separated from the bent portion of another one of the elongated members positioned adjacent to said bent portion of said one elongated member by a distance that is greater than twice the thickness of one of the elongated members.

45. (new) An insert as recited in claim 42 wherein said bent portion of said one elongated member has a portion separated from the bent portion of another one of the elongated members positioned adjacent to said bent portion of said one elongated member by a distance that is greater than three times the thickness of one of the elongated members.

46. (new) An insert as recited in claim 42 wherein a reactance is formed between the rear portion of said one elongated member and the rear portion of another elongated member not positioned adjacent to said bent portion of said one elongated member.

47. (new) A connector comprising:

a modular housing having a data signal transmission media plug receiving space; and an insert as recited in claim 42 seated in the modular housing.

48. (new) A connector as recited in claim 47 wherein the data signal transmission media plug receiving space defines a RJ45 plug receiving space.

49. (new) An insert for a modular housing having a data signal transmission media plug receiving space, the insert comprising:

a dielectric support member; and

a plurality of pairs of electrically conductive elongated members supported by the dielectric support member, each elongated member having a front end portion and a rear end portion, the front end portion including a contact portion to be exposed in the receiving space for making electrical contact with a media plug contact, the contact portion being disposed between the rear end portion and a front of the front end portion, the front end portion further including a second portion disposed forward of the contact portion, the rear end portion including a portion for connecting to the elongated member,

wherein the second portion of one of the elongated members has a portion separated from the second portion of another one of the elongated members positioned adjacent to said second portion of said one elongated member by a distance that is greater than twice the thickness of one of the elongated members.

50. (new) An insert as recited in claim 49 wherein said second portion of said one elongated member has a portion separated from the second portion of said another elongated member by a distance that is greater than three times the thickness of one of the elongated members.

51. (new) A connector comprising:

a modular housing having a data signal transmission media plug receiving space; and  
an insert as recited in claim 49 seated in the modular housing.

52. (new) A connector as recited in claim 51 wherein the data signal transmission media plug receiving space defines a RJ45 plug receiving space.